Translation

PATENT COOPERATION TRE



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

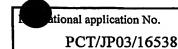
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 301047980	FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No.	International filing da		Priority date (day/month/year)				
PCT/JP2003/016538	24 December 20	003 (24.12.2003)	24 December 2002 (24.12.2002)				
International Patent Classification (IPC) or n H04L 12/56	ational classification ar	nd IPC					
Applicant FUKUSHIMA, Hajime							
This report is the international prelir Authority under Article 35 and trans	ninary examination rep mitted to the applicant	ort, established by this according to Article 3	International Preliminary Examining 6.				
	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
3. This report is also accompanied by A							
a. 🔀 (sent to the applicant and	to the International Bu	ureau) a total of 19	sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relating to the following items:							
Box No. I Basis of the report							
Box No. II Priority							
Box No. III · Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of	of this report				
14 July 2004 (14.07.2004)		20 Ja	anuary 2005 (20.01.2005)				
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.		Telephone No					



Box No.	I	Basis of the report					
		I to the language, this report is based on the	e international application in the lang	guage in which it was filed, unless			
		report is based on translations from the ch is language of a translation furnished for		g language,			
		international search (under Rules 12.3 and	1 23.1(b))				
ŀ		publication of the international application (under Rule 12.4)					
		international preliminary examination (un	der Rules 55.2 and/or 55.3)				
furnis	hed to	d to the elements of the international ap to the receiving Office in response to an international of the second annexed to this report):	vitation under Article 14 are referre	(replacement sheets which have been ed to in this report as "originally filed"			
		international application as originally filed/	Turmsned				
		escription:	-58,60-74,76,77,79-83,85	, as originally filed/furnished			
	page page		received by this Authority on	27 December 2004 (27.12.2004)			
	page	·	received by this Authority on				
		laims:		as originally filed/firmiched			
	page		as amended (too	, as originally filed/furnished tether with any statement) under Article 19			
1	page		received by this Authority on	27 December 2004 (27.12.2004)			
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		lrawings:	1-28	, as originally filed/furnished			
	page	· · · · · · · · · · · · · · · · · · ·	received by this Authority on	, as originally mediumshed			
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	•			· · · ·			
	a sec	quence listing and/or any related table(s) -	see Supplemental Box Relating to Se	equence Listing.			
3	The	amendments have resulted in the cancellati	on of:				
		the description, pages					
1		the claims, Nos.					
·		the drawings, sheets/figs					
	F	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):						
ļ	_						
4.	mad	report has been established as if (some of e, since they have been considered to go to 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs	beyond the disclosure as filed, as				
	<u>_</u>	the sequence listing (specify):					
1	L	any table(s) related to sequence listing (s	pecify):				
* If ite.	m 4 a	pplies, some or all of those sheets may be n	narked "superseded."				





		gard to novelty, inventive step or industrial applicability; ment		
(N)	Claims	1-52	YES	
	Claims	•	МО	
Inventive step (IS)	Claims	1-5, 8-52	YES	
	Claims	6,7	NO NO	
Industrial applicability (IA)	Claims	1-52	YES	
	Claims		МО	
•	step (IS)	Claims Claims Claims Claims Claims Claims	Claims	

2. Citations and explanations (Rule 70.7)

Document 1: JP, 2002-135301, A (Nippon Telegraph and Telephone Corporation), May 10, 2002

(05.10.02)

Paragraphs 0019-0031, Figs. 1 and 2

Document 2: Toshiaki TAGO, "Ima kara demo Maniau UNIX & Linux Nyumon Dai 5 Kai Network

no Settei (Sono 2)," DB Magazine, (K.K. Soeisha), Vol. 11, No. 11, January 1, 2002

(01.01.02), pp. 168-174, Column of "nslookup" (p. 170)

Document 3: JP, 2002-318737, A (K.K. Index), October 31, 2002 (10.31.02)

Paragraphs 0037 to 0052, All drawings

Document 4: JP, 11-122283, A (Toshiba Corporation)

April 30, 1999 (04.30.99)

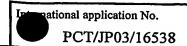
Paragraphs 0029 to 0053, Figs. 1-9

Claims 6 and 7

Document 1 describes that a management server transmits a random value r ("response request" in claim 6 etc. of the present application) to a server to be managed, and the server to be managed that has received the random value r calculates a function value y' from the random value r and sends back the function value y' (corresponding to "response" in claim 6 etc. of the present application) to the management server (see document 1, paragraphs 0019 to 0031).

A management server transmitting a random value r to a server to be managed and the server to be managed sending back a function value y' correspond to a destination communication node responding to a response request from a transmitter communication node in the invention relating to claim 6 of the present application.

A network comprising a transmitter node, destination communication node and mapping announcement system, wherein a host name (static identifier) and dynamic address (IP address) are correlated, thereby acquiring host reachability, is well known as a network using a dynamic DNS; therefore, applying the invention described in document 1 to the well-known network to achieve the configuration of claims 6 and 7 of the present application could be easily conceived of by a party skilled in the art.



Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 1. Claim 43 describes a "medium characterized in storing a program product according to any one of claims 41 through 42"; however, the invention of claim 41 is not an invention of a program product.
- 2. Claim 52 cites claim 54 but there is no claim 54.

Claim 52 is found to be a "computer readable medium characterized in storing a program product according to claim 51" by the present international preliminary examination report.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of Box V.2:

Claims 1-5

None of documents 1-4 describes or suggests that a mapping combining a static identifier and dynamic address of a mapping announcement system and a mapping combining a static identifier and dynamic address of a destination communication node are compared to judge veracity of reachability with respect to a destination communication node.

Claims 8-27

None of documents 1-4 describes or suggests that information by which reachability with respect to a destination communication node is confirmed by a transmitter communication node is stored in a mapping announcement system, a prescribed communication is made between the transmitter communication node and the destination communication node, and the transmitter communication node, having made reply to the destination mode, makes comparison with any information it has stored itself, thereby confirming veracity of reachability.

Claims 28-35

None of documents 1-4 describes or suggests that veracity of reachability with respect to a destination communication node is judged by static information sent in reply from a destination communication node.

Claims 36-43

None of documents 1-4 describes or suggests a configuration such that when nonexistence of a destination node is detected, a mapping combining a static identifier and dynamic address indicating a destination communication node in the mapping announcement system is not announced.

Claims 44-52

None of documents 1-4 describes or suggests that given information that a transmitter node uses for making inquiry of the destination node to a mapping announcement system is stored as a response to be made by a communication node, and reply of such information is given as a reply to a sign or communication in a method agreed to in advance.